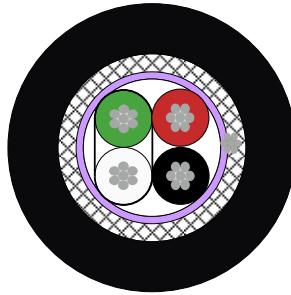


## FieldLink® USB 2.0 Cable



### Design

#### Wire LI2Y 0.09/0.8

Stranded tinned copper wire 7 X 0.13 (28 AWG)  
Insulation of Polyethylene (PE)  
Wall thickness about 0.2 mm

ø 0.4 mm (0.016 in)  
ø 0.84 mm (0.033 in)

#### Pair LI2Y 2X0.09/0.8 (USB)

2 wires LI2Y 0.09/0.8 twisted to a pair

#### Wire LIY 1X0.09/0.8

Stranded tinned copper wire 7 X 0.13 (28 AWG)  
Insulation of Polyvinylchloride (PVC)  
Wall thickness about 0.2 mm

ø 0.4 mm (0,016 in)  
ø 0.8 mm (0,031 in)

#### Core:


1 pair LI2Y 2X1X0.09/0.8 WH/GN  
2 wires LIY 1X0.09/0.8 RD-BK  
Alulaminat foil overlapped  
Stranded tinned copper drain wire (28 AWG) 0.09 mm<sup>2</sup>  
Shield braiding of tinned copper wires 0.13 mm dia (36 AWG)  
Coverage about 90%

ø 2.7 mm (0,106 in)

#### Jacket:

Polyurethane (PUR) BK - RAL 7021  
Wall thickness about 0.75 mm

ø (4.2 ±0.2) mm (0,165 ±0,008 in)

Printing: "sequential length in metres" LEONI L USB 2.0 PUR OIL RESISTANT 60°C 2x28AWG + 2x28AWG \*  
c  US AWM STYLE 20963 \* AWM I/II A/B 80°C 30V FT1 \* "year/internal order number"

### Electrical data at 20°C

#### Wire LIY 0.09/0.8

Conductor resistance	≤	210	Ohm/km
Insulation resistance	≥	20	MOhm*km
Operating voltage (peak)	≤	100	V
Test voltage (wire/wire/screen rms 50Hz 1min)		1000	V

#### Pair LI2Y 2X0.09/0.8 VZN

The electrical requirements acc. to USB 2.0

Test voltage (wire/wire/screen rms 50Hz 1min)	1000	V
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Frequency (MHz)	1	4	8	12	24	48	96	200	400
Attenuation typ. (dB/100m) (dB/100ft)	4,0 (1,22)	7,8 (2,38)	11,4 (3,47)	13,4 (4,08)	19 (5,79)	27 (8,23)	38 (11,58)	64 (19,51)	116 (35,36)

### Mechanical and thermal characteristics

Conductor/Screen material acc. to DIN EN 13602 Cu-ETP-A...-B

Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table L/MD (HD 624.3) (2Y)

Insulating material acc. to DIN EN 50290-2-21 (VDE 0819), compound type TI53 (HD 624.1)

Jacket material acc. F45052-F5100 (similar to DIN VDE 0282)

Oil resistant acc. to 1581 Sec. 480 (60°)

(Oil resistance test UL-Style 20351 (PUR Jacket) of 14.01.2003)

UL-Style 20963 (80°C/30V)

CSA C22.2 No. 210.2 I/II A/B FT1

### Other characteristics:

Permissible temperature range : -30 °C (-22 °F) up to 80 °C (176 °F)

Min. bending radius allowed : repeated 8X ø, single 4X ø

PVC weight with Phthalate : 0.0 Kg/km

PVC weight without Phthalate : 1.0 Kg/km

Weight about : 26 Kg/km (17 lb/1000ft)

### Designation of order:

L45581-A49-W18

209835

LI2Y 1X2X0.09

LIY (ST)C11Y 2X1X0.09 VZN

1000 m (3281 ft) on non-returnable reel